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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Name of Applicant: CATALYTIC DISTILLATION TECHNOLOGIES  
Address of Applicant: 10100 Bay Area Boulevard  
Pasadena, Texas 77507

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**REVOCATION AND SUBSTITUTION  
OF POWER OF ATTORNEY UNDER 37 C.F.R. §1.36**

Dear Sir:

Pursuant to 37 C.F.R. §1.36, CATALYTIC DISTILLATION TECHNOLOGIES, the applicant of the patent applications listed on the attached APPENDIX A, revokes all previous powers of attorney in the patent applications listed on the attached APPENDIX A, hereby appoints the following attorneys and/or agents assigned to the Customer Number listed below to prosecute the patent applications listed on the attached APPENDIX A, and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Customer Number 70312

Please direct all correspondence and telephone calls concerning the patent applications listed on the attached APPENDIX A to the address associated with Customer Number 70312.

Further, please change the attorney/docket number corresponding to the patent applications listed in APPENDIX A from the attorney/docket number on file to that indicated on APPENDIX A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified applicant.

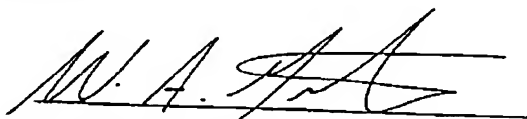
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The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true, that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent applications listed on the attached APPENDIX A or any patents issuing thereon.

Signature:



Dated:

8 May 2007

Name:

Willibrord A. Groten

Title:

Managing Director

Catalytic Distillation Technologies

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## **APPENDIX A**

1. **Patent Application/Serial No.:** 08/880,145  
**Title:** ETHERIFICATION PROCESS  
**Filed:** 06/20/1997  
**Assignee:** Chemical Research & Licensing Co.  
**Reel/Frame No.:** 8641/0208  
**Reference No:** 17344/068002 (CDT 1523)
  
2. **Patent Application/Serial No.:** 10/699,712  
**Title:** PROCESS FOR THE DESULFURIZATION OF LIGHT FCC NAPHTHA  
**Filed:** 11/03/2003  
**Assignee:** Catalytic Distillation Technologies  
**Reel/Frame No.:** INSERT HERE  
**Reference No:** 17344/135001 (CDT 1861)
  
3. **Patent Application/Serial No.:** 11/038,755  
**Title:** ENERGY EFFICIENT METHOD AND APPARATUS FOR EXOTHERMIC REACTIONS  
**Filed:** 01/19/2005  
**Assignee:** Catalytic Distillation Technologies  
**Reel/Frame No.:** 01602/0920  
**Reference No:** 17344/137001 (CDT 1868/86)

**APPENDIX A (cont'd)**

4. **Patent Application/Serial No.:** 10/055,196  
**Title:** PROCESS FOR THE UTILIZATION OF  
REFINDERY C4 STREAMS  
**Filed:** 01/23/2002  
**Assignee:** Catalytic Distillation Technologies  
**Reel/Frame No.:** 012532/0406  
**Reference No:** 17344/113001 (CDT 1746)
5. **Patent Application/Serial No.:** 10/912,253  
**Title:** PROCESS FOR THE UTILIZATION OF  
REFINERY C4 STREAMS  
**Filed:** 08/05/2004  
**Assignee:** Catalytic Distillation Technologies  
**Reel/Frame No.:** 012532/0406  
**Reference No:** 17344/113002 (CDT 1746 Div)

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